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L9: Entry 5 of 5

File: USPT

May 1, 2001

DOCUMENT-IDENTIFIER: US 6225285 B1

TITLE: Semaphorin K1Abstract Text (1):

The invention provides methods and compositions relating to semaphorin K1 (sema K1) polypeptides which regulate cellular guidance and physiology, and related nucleic acids. The polypeptides may be produced recombinantly from transformed host cells from the disclosed sema K1 encoding nucleic acids or purified from human cells. The invention provides isolated sema K1 hybridization probes and primers capable of specifically hybridizing with the disclosed sema K1 genes, sema K1-specific binding agents such as specific antibodies, and methods of making and using the subject compositions in diagnosis, therapy and in the biopharmaceutical industry.

Brief Summary Text (5):

Several other semaphorins have also been implicated as repulsive and/or attractive cues in axon guidance, axon fasciculation, and synapse formation (1, 12-17). In addition, members of semaphorin family have been implicated in functions outside the nervous system, including bone skeleton and heart formation (9), immune function (18, 19), tumor suppression (20-22), and conferring drug resistance to cells (23).

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US-PAT-NO: 6225285

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TITLE: Semaphorin K1

DATE-ISSUED: May 1, 2001

INVENTOR-INFORMATION:

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APPL-NO: 09/ 041236 [PALM]

DATE FILED: March 11, 1998

INT-CL: [07] A61 K 38/00, C07 K 14/00, C07 K 16/00, C07 K 17/00, C07 K 5/00

US-CL-ISSUED: 514/12; 514/14, 530/300, 530/324, 530/325, 530/326, 530/327, 530/333, 530/344, 530/350, 435/7.1, 435/7.2, 435/73.4

US-CL-CURRENT: 514/12; 435/7.1, 435/7.2, 514/14, 530/300, 530/324, 530/325, 530/326, 530/327, 530/333, 530/344, 530/350

FIELD-OF-SEARCH: 514/12, 514/14, 530/300, 530/324, 530/325, 530/326, 530/327, 530/333, 530/344, 530/350, 435/7.1, 435/7.2, 435/7.21, 435/73.4

PRIOR-ART-DISCLOSED:

OTHER PUBLICATIONS

Sambrook et al. Molecular Cloning CSH Lab Press; pp. 17.2-17.44, 1989.*

GenEmbl Accession No. AF 030698, submitted Oct. 21, 1997.*

Rudinger et al. "Peptide Hormones", edited by Parsons, J.A. University Park Press, p. 6, Jun. 1976.*

Lazar et al., Molecular and Cellular Biology, 8(3) =1247-1252, 1988.

ART-UNIT: 165

PRIMARY-EXAMINER: Smith; Lynette R. F.

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ABSTRACT:

The invention provides methods and compositions relating to semaphorin K1 (sema K1) polypeptides which regulate cellular guidance and physiology, and related nucleic acids. The polypeptides may be produced recombinantly from transformed host cells from the disclosed sema K1 encoding nucleic acids or purified from human cells. The invention provides isolated sema K1 hybridization probes and primers capable of specifically hybridizing with the disclosed sema K1 genes, sema K1-specific binding agents such as specific antibodies, and methods of making and using the subject compositions in diagnosis, therapy and in the biopharmaceutical industry.

8 Claims, 0 Drawing figures